

Appl. No. : Not Yet Assigned
Filed : September 29, 2006

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An electrode of an alkaline fuel cell, said the electrode comprising an insulating frame having comprising:
a plurality of ports for feeding and dischargingconfigured to feed and discharge
reagents; reagents,
a mesh current collector embedded in the frame and having lead-outs extending beyond the frame; frame,
an active layer and a barrier layers sequentially applied onto the mesh current collector, characterized in that wherein sites of the embedment of the current collector and the lead-outs in the insulating frame, and a periphery of the current collector along an inner edge of the insulating frame are provided withinclude a sealing layer.
2. (Currently Amended) The electrode according to claim 1, characterized in thatwherein the sealing layer is made of an electrolyte non-wettable substance.
3. (Currently Amended) The electrode according to claim 2, characterized in that the sealing layer is made ofwherein the sealing layer is formed from fluoroplastic.
4. (Currently Amended) A method forof producing an electrode of an alkaline fuel cell, said the method including comprising:
producing a mesh current collector havingincluding lead-outs; lead-outs,
sequentially applying an active layer and a barrier layers onto the mesh current collector; collector,
embedding the current collector having the lead-outs into an insulating frame; 5
characterized in that, before
prior to the application of the active and barrier layers onto the current collector, impregnating edges of the current collector and the lead-outs in sites of the embedment into the insulating frame are impregnated with a lacquer solution; and and,

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after the embedding of the current collector has been embedded into the insulating frame, impregnating a periphery of the current collector along an inner edge of the insulating frame is impregnated with the lacquer solution.

5. (Currently Amended) The method according to claim 4, characterized in that further comprising:

using a solvent wetting the mesh current collector is used as a solvent for the lacquer; and lacquer,

evaporating the solvent, wherein the lacquer is and a substance which forms a continuous, electrolyte non-wettable film after evaporating the solvent, evaporation is used as the lacquer.